

APP 1108

Appl. No. 09/293,217
Amdt. Dated 08/12/04
Reply to Office action of 02/12/04

Listing of Claims:

Claim 1 (previously withdrawn)

Claim 2 (canceled)

Claim 3 (currently amended) A method for transmitting frames of data over a wireless access system employing a time division duplex transmission scheme with said wireless access system having a plurality of radio ports for communicating with a plurality of mobile subscriber units, each frame having a plurality of data slots and a first control time slot at the beginning of said frame and a second control time slot to mark the end of said frame, comprising the steps of:

using said first control time slot to identify a mobile subscriber unit that for which there are incoming communications;

identifying the types of traffic being transmitted between a first communication device a radio port of said wireless access system and said mobile subscriber unit a second communication device;

reserving at least one data slot in a frame for each type of traffic being transmitted between the said radio port and said mobile subscriber unit first communication device and the second communication device; and

including a control time slot in the frame that identifies the first communication device, the second communication device, and the traffic type of each data slot in the frame

using said second control time slot to send access and registration messages from said mobile subscriber unit to said radio port.

Claims 4 - 10 (canceled)

Claim 11 (previously withdrawn)

Claim 12 (currently amended) A system for transmitting frames of data over a wireless access system employing a time division duplex transmission scheme with said wireless

APP 1108

Appl. No. 09/293,217
Amdt. Dated 08/12/04
Reply to Office action of 02/12/04

access system having a plurality of radio ports for communicating with a plurality of mobile subscriber units, each frame having a plurality of data slots and a first control time slot at the beginning of said frame and a second control time slot to mark the end of said frame, said system comprising:

means for using said first control time slot to identify a mobile subscriber unit that for which there are incoming communications;

means for identifying the types of traffic being transmitted between a first communication device a radio port of said wireless access system and said mobile subscriber unit;

means reserving at least one data slot in a frame for each type of traffic being transmitted between the said radio port and said mobile subscriber unit first communication device and the second communication device; and

means for including a control time slot in the frame that identifies the first communication device, the second communication device, and the traffic type of each data slot in the frame

means for using said second control time slot to send access and registration messages from said mobile subscriber unit to said radio port.

Claims 13 – 17 (canceled)